

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2011 Levee Inspection Results****Reclamation District No. 0544 Upper Roberts Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.11

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/19/2011 - 4/19/2011			
DWR Inspector	Richard Willoughby			
Accompanied By				

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River						Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	6.11	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.870405 ° -121.329853 °	37.808677 ° -121.328305 °	8
2	0.00	6.11	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.870405 ° -121.329850 °	37.808673 ° -121.328308 °	6
3	0.00	0.02	Earthen Levee	Erosion / Bank Caving	WS	U	Schedule repair of erosion site prior to the next inspection.	37.870342 ° -121.329837 °	37.870128 ° -121.329740 °	36 Y
4	0.04	0.04	Earthen Levee	Slope Stability	LS	U	Repair slope instability. Inspector Comments: Sink hole located on landside shoulder and slope. Sink hole is approx. 36" deep and 72" in diameter.	37.869915 ° -121.329653 °	37.869915 ° -121.329653 °	38 Y
5	0.05	0.18	Earthen Levee	Encroachments	LS	M	Equipment Inspector Comments: Farm equipment and supplies stored at landside toe.	37.869605 ° -121.329573 °	37.868180 ° -121.328160 °	4 Y
6	0.41	0.45	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 09/07/2010: No significant changes observed on site. There are minor pockets of erosion lining the lower slope and undermining of the toe. There are annual grasses and emergent vegetation at the lower slope. Burrow holes were observed along the slope and persist throughout the 200-foot long site. 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO. [2010 SiteID: RD0544U01RM47.12]	37.864820 ° -121.327200 °	37.864820 ° -121.327200 °	1 Y
7	0.41	0.41	Earthen Levee	Trim / Thin Trees	LS	M	Thin trees to allow visibility of the ground and room to flood fight.	37.864958 ° -121.327142 °	37.864958 ° -121.327142 °	2
8	0.48	0.49	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site.	37.864643 ° -121.326363 °	37.864592 ° -121.326165 °	5
9	0.48	0.68	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.864578 ° -121.326210 °	37.863753 ° -121.322835 °	3
10	0.57	0.57	Earthen Levee	Slope Stability	WS	C	Repair slope instability.	37.864357 ° -121.324860 °	37.864357 ° -121.324860 °	7
11	0.65	0.70	Earthen Levee	Encroachments	LS	PO	Landscaping	37.863935 ° -121.323341 °	37.863599 ° -121.322442 °	9
12	0.71	0.71	Earthen Levee	Encroachments	WS	CO	Landscaping	37.863575 ° -121.322367 °	37.863575 ° -121.322367 °	10
13	0.74	0.74	Earthen Levee	Trim / Thin Trees	WS	W	Trim trees over roadway to at least 12 feet above ground level.	37.863380 ° -121.321897 °	37.863380 ° -121.321897 °	12
14	1.13	1.13	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.859423 ° -121.318328 °	37.859423 ° -121.318328 °	39
15	1.14	1.76	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.859287 ° -121.318333 °	37.854252 ° -121.324092 °	15

*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River						Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
16	1.33	1.44	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	37.857042 ° -121.320480 °	37.855792 ° -121.321212 °	19
17	1.44	1.44	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	37.855778 ° -121.321206 °	37.855778 ° -121.321206 °	13
18	1.45	1.45	Earthen Levee	Trim / Thin Trees	WS	N	Tree stumps.	37.855583 ° -121.321177 °	37.855583 ° -121.321177 °	14
19	1.49	1.55	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.855087 ° -121.321127 °	37.854187 ° -121.321055 °	42
20	1.58	1.69	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	37.854108 ° -121.321582 °	37.854837 ° -121.323280 °	43
21	1.73	1.85	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.854530 ° -121.323870 °	37.852850 ° -121.324058 °	55
22	1.80	1.80	Earthen Levee	Encroachments	LS	M	Prunings	37.853445 ° -121.324227 °	37.853445 ° -121.324227 °	20
23	1.86	1.86	Earthen Levee	Encroachments	LS	M	Prunings	37.852771 ° -121.324014 °	37.852771 ° -121.324014 °	21
24	1.95	2.28	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.851615 ° -121.323210 °	37.848105 ° -121.324857 °	44
25	2.31	2.38	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	37.847686 ° -121.324780 °	37.846743 ° -121.324336 °	34
26	2.46	2.46	Earthen Levee	Encroachments	CR	M	Pipe Inspector Comments: Abandoned pipe should be removed	37.845850 ° -121.323230 °	37.845850 ° -121.323230 °	46
27	2.86	2.86	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	37.841075 ° -121.320205 °	37.841075 ° -121.320205 °	22
28	2.98	3.21	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.840485 ° -121.318390 °	37.837225 ° -121.317408 °	47
29	2.98	2.98	Earthen Levee	Encroachments	LS	M	Pipe Inspector Comments: Landowner installing temporary irrigation system across levee crown without permit.	37.840483 ° -121.318370 °	37.840483 ° -121.318370 °	16 Y
30	3.25	3.87	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	37.836763 ° -121.317307 °	37.829195 ° -121.311918 °	49
31	3.26	3.29	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.836615 ° -121.317285 °	37.836133 ° -121.317153 °	48
32	3.31	3.31	Earthen Levee	Encroachments	WS	PO	Ramp Inspector Comments: Landowner has cut new ramp on waterside slope.	37.835951 ° -121.317062 °	37.835951 ° -121.317062 °	37
33	3.32	3.32	Earthen Levee	Erosion / Bank Caving	WS	M	Note and monitor erosion site. Inspector Comments: Erosion located on waterside shoulder. Erosion cause by rain runoff	37.835815 ° -121.316997 °	37.835815 ° -121.316997 °	50

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River							Left	6.11	04/19/2011 04/19/2011	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
34	3.51	3.51	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.833583 ° -121.314968 °	37.833583 ° -121.314968 °	56
35	3.52	4.72	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.833432 ° -121.314792 °	37.821853 ° -121.319992 °	51
36	3.95	3.95	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.828120 ° -121.311504 °	37.828120 ° -121.311504 °	24
37	4.06	4.09	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.826621 ° -121.310820 °	37.826315 ° -121.311024 °	11
38	4.18	4.32	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	37.825762 ° -121.312393 °	37.825005 ° -121.314982 °	52
39	4.28	4.28	Earthen Levee	Vegetation	LS		Elderberries are blocking visibility and flood fight capability.	37.825517 ° -121.314160 °	37.822955 ° -121.316835 °	57
40	4.32	4.32	Earthen Levee	Slope Stability	WS	U	Repair slope instability. Inspector Comments: Ten inch pipe possible broken pipe.	37.824995 ° -121.314983 °	37.824995 ° -121.314983 °	53 Y
41	4.32	4.32	Earthen Levee	Encroachments	LS	M	Garbage Inspector Comments: Old concrete pipes on landside toe should be removed.	37.825151 ° -121.314826 °	37.825151 ° -121.314826 °	25
42	4.33	4.33	Earthen Levee	Crown Surface / Depressions / Rutting	CR	U	Regrade the crown roadway for proper drainage. Inspector Comments: Depression across levee crown	37.825035 ° -121.314967 °	37.825035 ° -121.314967 °	58 Y
43	4.34	4.34	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.824943 ° -121.315008 °	37.824943 ° -121.315008 °	59
44	4.44	4.72	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes.	37.823617 ° -121.315550 °	37.821855 ° -121.319995 °	54
45	4.53	4.53	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.822934 ° -121.316870 °	37.822934 ° -121.316870 °	41 Y
46	4.70	4.70	Earthen Levee	Encroachments	LS	M	Garbage	37.821901 ° -121.319683 °	37.821901 ° -121.319683 °	27
47	4.75	4.75	Earthen Levee	Animal Control	CR	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.821626 ° -121.320471 °	37.821626 ° -121.320471 °	29
48	4.75	4.75	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	37.821626 ° -121.320471 °	37.821626 ° -121.320471 °	28
49	4.75	4.78	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.821592 ° -121.320617 °	37.821253 ° -121.320927 °	26
50	4.86	4.86	Earthen Levee	Encroachments	LS	W	Prunings Inspector Comments: Remove dead stumps at landside toe and prunings on landside slope.	37.820227 ° -121.321115 °	37.820227 ° -121.321115 °	30
51	4.86	4.86	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.820081 ° -121.321043 °	37.820081 ° -121.321043 °	31

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River						Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
52	4.94	4.94	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.819249 ° -121.320460 °	37.819249 ° -121.320460 °	32
53	5.00	5.30	Earthen Levee	Vegetation	LS	U	Remove the wild growth other than native grasses from the levee slopes.	37.818718 ° -121.319508 °	37.814662 ° -121.320302 °	33 Y
54	5.05	5.05	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.818152 ° -121.319095 °	37.818152 ° -121.319095 °	17
55	5.39	5.39	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.813659 ° -121.319614 °	37.813659 ° -121.319614 °	35
56	5.44	5.44	Earthen Levee	Vegetation	WS	U	Elderberries are blocking visibility and flood fight capability.	37.813175 ° -121.318998 °	37.813175 ° -121.318998 °	60
57	5.54	5.60	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.812033 ° -121.319737 °	37.811687 ° -121.320677 °	18 Y
58	5.69	5.69	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	37.811199 ° -121.322176 °	37.811199 ° -121.322176 °	40
59	5.75	5.75	Earthen Levee	Encroachments	LS	M	Garbage	37.811188 ° -121.323313 °	37.811188 ° -121.323313 °	61

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.02
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking south at erosion and slope stability issue.

richard_s_20110425_489.jpg



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.02
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking south at waterside erosion and slope stability.

richard_s_20110425_490.jpg



Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.02
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking north at waterside erosion and slope stability.

richard_s_20110425_491.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.02
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

Looking north at erosion along waterside slope and toe.

richard_s_20110425_492.jpg



Levee Mile Report Line	4
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking at sink hole (approx. 36" deep and 72" in diameter) on landside shoulder and slope.

richard_s_20110425_493.jpg



Levee Mile Report Line	4
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking east at sink hole on landside shoulder.

richard_s_20110425_494.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking south at sink hole on landside shoulder.

richard_s_20110425_495.jpg



Levee Mile Report Line	4
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking east at sink hole on landside shoulder.

richard_s_20110425_496.jpg



Levee Mile Report Line	4
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Sink hole on measuring 36" deep by 72" in diameter.

richard_s_20110425_497.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

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Unit No. 01 San Joaquin River	Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.04
End Levee Mile	0.04
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Sink hole on landside shoulder approx. 36" deep.

richard_s_20110425_498.jpg



Levee Mile Report Line	5
Start Levee Mile	0.05
End Levee Mile	0.18
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at equipment along landside toe.

richard_s_20110425_499.jpg



Levee Mile Report Line	5
Start Levee Mile	0.05
End Levee Mile	0.18
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at equipment along landside toe.

richard_s_20110425_500.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.41
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of site where a 4-foot vertical scarp has occurred.

richard_s_20110215_208.jpg



Levee Mile Report Line	6
Start Levee Mile	0.41
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of site where undermining of the slope has occurred.

richard_s_20110215_209.jpg



Levee Mile Report Line	6
Start Levee Mile	0.41
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Front view of site.

richard_s_20110215_210.jpg



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**Flood Control Project Maintenance
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.41
End Levee Mile	0.45
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Close-up view of a 4-foot long vertical scarp. This photo was taken on 09/30/2009.

richard_s_20110215_211.jpg



Levee Mile Report Line	29
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at landowner installing temporary pump system without permit and damage to waterside slope.

richard_s_20110425_502.jpg



Levee Mile Report Line	29
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at pump and irrigation ramp on levee waterside and crown.

richard_s_20110425_503.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated

C : Corrected
W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	29
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking south at damage landside slope caused by vehicle traffic.

richard_s_20110425_504.jpg



Levee Mile Report Line	29
Start Levee Mile	2.98
End Levee Mile	2.98
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking north at pipe and pipe ramp on landside and crown of levee.

richard_s_20110425_505.jpg



Levee Mile Report Line	40
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking east at erosion on waterside slope and berm cause by leaking 10" pipe.

richard_s_20110215_218.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
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PO : Partially Obstructing
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N : Not Inspected/Rated

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	40
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking west at hole on waterside shoulder and slope cause by possible broken pipe.

richard_s_20110215_219.jpg



Levee Mile Report Line	40
Start Levee Mile	4.32
End Levee Mile	4.32
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking northwest at pump and platform for 10" possible leaking pipe.

richard_s_20110215_220.jpg



Levee Mile Report Line	42
Start Levee Mile	4.33
End Levee Mile	4.33
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking south at depression greater than 6" on waterside shoulder.

richard_s_20110425_506.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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PO : Partially Obstructing
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	42
Start Levee Mile	4.33
End Levee Mile	4.33
Location	Crown
Category	Earthen Levee
Item	Crown Surface / Depressions / Rutting

Looking southeast at depression on waterside shoulder.

richard_s_20110425_507.jpg



Levee Mile Report Line	45
Start Levee Mile	4.53
End Levee Mile	4.53
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberries on landside slope and toe.

richard_s_20110215_217.jpg



Levee Mile Report Line	53
Start Levee Mile	5.00
End Levee Mile	5.30
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southeast at dense veg. on landside slope and toe.

richard_s_20110215_216.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated

C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.11	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	57
Start Levee Mile	5.54
End Levee Mile	5.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest on elderberries on landside slope and toe.

richard_s_20110215_213.jpg



Levee Mile Report Line	57
Start Levee Mile	5.54
End Levee Mile	5.60
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberries on landside slope and toe.

richard_s_20110215_214.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 02 Old River			Right	4.22

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/19/2011 - 4/19/2011			
DWR Inspector	Richard Willoughby			
Accompanied By	Jerry Robinson			

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River						Right	4.22	04/19/2011 04/19/2011	Richard Willoughby

LMIR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	4.22	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.808658 ° -121.328355 °	37.822438 ° -121.374570 °	12
2	0.00	4.22	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.808657 ° -121.328355 °	37.822438 ° -121.374570 °	9
3	0.32	0.37	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.808972 ° -121.333720 °	37.809442 ° -121.334415 °	3
4	0.41	0.41	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.809788 ° -121.334727 °	37.809788 ° -121.334727 °	4 Y
5	0.43	1.13	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.810250 ° -121.334933 °	37.819452 ° -121.333755 °	1
6	0.43	1.50	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	37.810253 ° -121.334930 °	37.822285 ° -121.339252 °	2
7	0.52	0.52	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps.	37.811592 ° -121.335018 °	37.811592 ° -121.335018 °	11
8	0.74	0.74	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.814333 ° -121.334592 °	37.814333 ° -121.334592 °	5 Y
9	0.79	0.79	Interior Drainage & Piping Systems	Erosion Areas	WS	U	Inspector Comments: Caving under siphon on waterside shoulder. No material 3' below pipe. Craving under pipe appears to be repaired. But craving is visible around siphon 20 to 24" deep approx 72" in diameter.	37.815102 ° -121.333898 °	37.815102 ° -121.333898 °	8 Y
10	1.02	1.02	Earthen Levee	Encroachments	WS	M	Garbage	37.818100 ° -121.332750 °	37.818100 ° -121.332750 °	6
11	1.14	1.14	Earthen Levee	Encroachments	LS	U	Prunings	37.819530 ° -121.333827 °	37.819530 ° -121.333827 °	20 Y
12	1.15	1.21	Earthen Levee	Encroachments	LS	CO	Fences	37.819560 ° -121.333893 °	37.820083 ° -121.334812 °	25
13	1.23	1.23	Earthen Levee	Encroachments	LS	M	Prunings	37.820235 ° -121.335127 °	37.820235 ° -121.335127 °	7
14	1.36	1.50	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.821095 ° -121.337185 °	37.822285 ° -121.339252 °	38
15	1.39	1.39	Earthen Levee	Vegetation	WS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Control bamboo on waterside slope.	37.821323 ° -121.337725 °	37.821323 ° -121.337725 °	14
16	1.40	1.40	Earthen Levee	Encroachments	LS	M	Pipe Inspector Comments: Pipe should be removed or properly abandoned.	37.821463 ° -121.337900 °	37.821463 ° -121.337900 °	21 Y
17	1.41	1.41	Earthen Levee	Vegetation	LS	U	Elderberries are blocking visibility and flood fight capability.	37.821423 ° -121.337878 °	37.821423 ° -121.337878 °	10 Y

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River							Right	4.22	04/19/2011 04/19/2011	Richard Willoughby
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
18	1.47	1.47	Earthen Levee	Animal Control	WS	M	Exterminate rodents and backfill and compact or grout burrows.	37.821954 ° -121.338715 °	37.821954 ° -121.338715 °	28
19	1.69	2.11	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	37.820863 ° -121.341285 °	37.819393 ° -121.344428 °	26
20	1.89	1.89	Earthen Levee	Slope Stability	WS	U	Repair slope instability. Inspector Comments: Caving on waterside shoulder approx.12-18" deep 24-36" in diameter.	37.818002 ° -121.341645 °	37.818002 ° -121.341645 °	16 Y
21	2.04	2.04	Earthen Levee	Trim / Thin Trees	LS	M	Trim trees to at least five feet above ground level.	37.818733 ° -121.343340 °	37.818733 ° -121.343340 °	44
22	2.05	2.20	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes.	37.818842 ° -121.343520 °	37.820193 ° -121.345525 °	39
23	2.11	2.12	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.819337 ° -121.344275 °	37.819460 ° -121.344492 °	13
24	2.25	2.25	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.820697 ° -121.346050 °	37.820697 ° -121.346050 °	32
25	2.28	2.38	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.821096 ° -121.346418 °	37.821945 ° -121.347897 °	33
26	2.29	2.29	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.821240 ° -121.346553 °	37.821240 ° -121.346553 °	40
27	2.36	3.29	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.821840 ° -121.347428 °	37.819198 ° -121.359940 °	41
28	2.48	3.29	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	37.821037 ° -121.349050 °	37.819200 ° -121.359943 °	42
29	2.64	2.64	Channels	Encroachments	WS	U	Inspector Comments: Remove dilapidated pump platform from river.	37.818872 ° -121.350392 °	37.818872 ° -121.350392 °	17 Y
30	2.65	2.65	Earthen Levee	Encroachments	CR	U	Pipe Inspector Comments: Abandoned pipe at landside and waterside shoulder is open on both ends.	37.818867 ° -121.350393 °	37.818867 ° -121.350393 °	15 Y
31	2.76	3.10	Earthen Levee	Crown Surface / Depressions / Rutting	CR	W	Keep the crown roadway free of vegetation.	37.817747 ° -121.351578 °	37.817497 ° -121.357490 °	43
32	3.53	3.56	Earthen Levee	Vegetation	LS	M	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Cactus on landside slope.	37.819576 ° -121.364056 °	37.819530 ° -121.364653 °	36 Y
33	3.61	4.22	Earthen Levee	Vegetation	WS	W	Remove the wild growth other than native grasses from the levee slopes.	37.819443 ° -121.365305 °	37.822442 ° -121.374608 °	47
34	3.64	4.22	Earthen Levee	Vegetation	LS	W	Remove the wild growth other than native grasses from the levee slopes.	37.819408 ° -121.366005 °	37.822442 ° -121.374607 °	48

*** Location**

LS : Landside
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**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River				Right	4.22	04/19/2011 04/19/2011	Richard Willoughby

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
35	4.18	4.18	Earthen Levee	Encroachments	WS	C	Prunings	37.822003 ° -121.374235 °	37.822003 ° -121.374235 °	37

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking northwest at elderberries on landside slope and toe.

richard_s_20110215_224.jpg



Levee Mile Report Line	4
Start Levee Mile	0.41
End Levee Mile	0.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberries on landside slope.

richard_s_20110425_508.jpg



Levee Mile Report Line	8
Start Levee Mile	0.74
End Levee Mile	0.74
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberries on landside slope and toe.

richard_s_20110215_225.jpg



*** Location**

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WS : Waterside
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas

Looking at top of siphon on waterside shoulder with 3' of caving around pipe.

richard_s_20110215_226.jpg



Levee Mile Report Line	9
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas

Looking at caving around 10" siphon pipe on waterside shoulder.

richard_s_20110215_227.jpg



Levee Mile Report Line	9
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas

Looking south at depression greater than 6" on waterside shoulder.

richard_s_20110425_509.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas

Looking south at depression greater than 6" around siphon on waterside shoulder.

richard_s_20110425_510.jpg



Levee Mile Report Line	9
Start Levee Mile	0.79
End Levee Mile	0.79
Location	Water Side
Category	Interior Drainage & Piping Systems
Item	Erosion Areas

Looking at top of siphon with a depression greater than 6" on waterside shoulder.

richard_s_20110425_511.jpg



Levee Mile Report Line	11
Start Levee Mile	1.14
End Levee Mile	1.14
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southwest at pruning pile on landside slope.

richard_s_20110425_512.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	16
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at pipe on landside slope.

richard_s_20110215_230.jpg



Levee Mile Report Line	16
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at pipe and erosion just above pipe on landside slope and shoulder.

richard_s_20110215_231.jpg



Levee Mile Report Line	16
Start Levee Mile	1.40
End Levee Mile	1.40
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking west at east end of pipe on waterside slope.

richard_s_20110215_232.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	17
Start Levee Mile	1.41
End Levee Mile	1.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking south at elderberries on landside slope and toe.

richard_s_20110215_228.jpg



Levee Mile Report Line	17
Start Levee Mile	1.41
End Levee Mile	1.41
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at elderberries on landside slope.

richard_s_20110425_513.jpg



Levee Mile Report Line	20
Start Levee Mile	1.89
End Levee Mile	1.89
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking southeast at depression greater than 6" and slope stability on waterside shoulder and slope.

richard_s_20110425_514.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	20
Start Levee Mile	1.89
End Levee Mile	1.89
Location	Water Side
Category	Earthen Levee
Item	Slope Stability

Looking east at depression and slope stability on waterside slope.

richard_s_20110425_515.jpg



Levee Mile Report Line	29
Start Levee Mile	2.64
End Levee Mile	2.64
Location	Water Side
Category	Channels
Item	Encroachments

Looking east at dilapidated pump platform

richard_s_20110425_516.jpg



Levee Mile Report Line	30
Start Levee Mile	2.65
End Levee Mile	2.65
Location	Crown
Category	Earthen Levee
Item	Encroachments

Abandoned pipe at LM 2.65 landside view

richard_s_20110215_229.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.22	04/19/2011 04/19/2011	Richard Willoughby

Levee Mile Report Line	32
Start Levee Mile	3.53
End Levee Mile	3.56
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Looking southwest at overgrown cactus on landside slope.

richard_s_20110215_233.jpg



*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

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M : Minimally Acceptable CO : Completely Obstructing W : Watch/Monitor
U : Unacceptable N : Not Inspected/Rated